Annex B

(informative)

Declaration of product environmental attributes

Product Category										
☐ PC	☐ Monitor ☐ Monitor* ☐ Without fan	☒ TV ☐ TV**	☐ VCR	☐ Mobile Phone	☐ NoteBook	☐ Camcorder	☐ Hi-fi	☐ Printer/copier ☐ Printer/copier***	☐ Others

*CRT monitors **Digital and Internet TV ***Using the electrostatic process

Date of Issue :	6	.	Nov	.	2006
Rev. No. :		Revision Date :		.		.	

1 Product Information / Description		
Brand	Sharp	**Company Logo**
Type of Product	LCD Colour TV	SHARP
Commercial Name	LC-32RA1E	
Model Number	LC-32RA1E	
Weight	18,400 kg	
Dimension	<h> 59 cm x <w> 80 cm x <d> 25 cm	
Supplier <Name>	Sharp Electrónica España, S.A.	
<Postal address> Postal code/City/Country	C/ Sena 8, 08174 Sant Cugat del Vallés. Spain	
e-mail		
<Contact person's name>	Mr. Andreu L. Hermo	
e-mail	hermo@sees.sharp-eu.com	
Telephone	+ 34 935 819 750	
Mobile phone	+	
Fax	+ 34 935 819 752	
Internet site (URL)	www.sharp.es	
Additional Information		

Environmental Programme Requirements conformed by the supplier		
Programme names	1	Energy using Products (EuP)
e.g. Energy Star	2	
e.g. TCO 03	3	

Environmental Management Systems under which the product has been developed, manufactured and / or delivered.		
System names	1	ISO 14001
e.g. ISO 14001	2	EMAS
e.g. EMAS	3	

Product Environmental Attributes - Legal Requirements

			Requirement met Yes	No	n.a.
4	**Electromagnetic Emissions**				
	The product complies with the following emission requirements, listing the applicable legislation and standards referring to human exposure to electromagnetic fields for example:				
4.1	**ICNIRP levels** as documented in European council recommendation on the limitation of exposure of the general public to electromagnetic fields **1999/519/EC**;		☐	☐	☑
4.2	**prEN 50392** 'Generic standard to demonstrate compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)'		☐	☐	☑
8	**Batteries**				
	The batteries are in conformance with international, regional and national regulations, concerning:				
8.1<a>	Restrictions on hazardous substances and preparations such as defined in the **98/101/EC** directive.		☑	☐	☐
8.2<b>	Labelling requirements such as defined in the **93/86/EEC**.		☑	☐	☐
8.3<c>	Installation and removal.		☐	☐	☑
8.4<d>	Take back and recycling.		☐	☐	☑
9	**Product Packaging**				
	The packaging is in compliance to international, regional and national regulations, concerning:				
9.2<a>	Restrictions on hazardous substances and preparations such as defined in the EU Directive **94/62/EEC** (requiring that the sum of the concentration of lead, cadmium, mercury, chromium-VI does not exceed 100 ppm by weight);		☑	☐	☐
9.3<b>	Labelling requirements.		☑	☐	☐
9.4<c>	Take back and recycling.		☑	☐	☐
11	**Product End of Life**				
11.1.1	Product take back systems complies with the applicable legislations.				
Legislation names		1 Directive 2002/96	☑	☐	☐
		2	☐	☐	☐
		3	☐	☐	☐
11.2	**Disassembly**				
11.2.1	Parts that have to be separately treated are declared to be separable, in compliance with international, regional and national regulations;				
Regulation names		1	☐	☐	☑
		2	☐	☐	☐
		3	☐	☐	☐

This product meets above listed legal requirements. ☑ ☐

Product Environmental Attributes - Market Requirements

2 Extension of Product Lifetime

2.1 The product is upgradable as follows; *e.g. memory up to 512 MB*

	<attribute>	up to	<unit>		<attribute>	up to	<unit>
1		up to		6		up to	
2		up to		7		up to	
3		up to		8		up to	
4		up to		9		up to	
5		up to		10		up to	

2.2	The manufacturer offers spare parts availability	7	years after end of production.
2.3	The manufacturer offers service availability	7	years after end of production.
2.4	The manufacturer offers warranty	2	years

The service warranty / policy is as follows

1	Spanish law 23/2003
2	
3	

2.5 Restrictions for spare parts and service availability are as follows (if they are restricted);

1	Electronic parts: spare parts availability is 7 years years after end of production.
2	Mechanical parts: spare parts availability is 5 years years after end of production.
3	Decorative parts: spare parts availability is 4 years years after end of production.

3 Power Consumption

3.1 Power consumption in watts (rms) for ENERGY USING MODES

For the product the following power consumption has been measured:

	<mode> *e.g. Play, stand-by passive*	<standard / applied test protocol>	<power>	
1	off mode (AC unplug)	Measurement	0,000	[watts]
2	off mode (AC plug)	Measurement	0,820	[watts]
3	stand-by	Measurement	0,820	[watts]
4	on mode	EN 62087:2002	82,00	[watts]
5				[watts]

Some example modes are; operational modes, inactive modes, off mode and no load mode.

4 Electromagnetic Emissions

4.3 The product comlies with the limits defined in:

<standard / programme> *e.g. MPR II-1990:8, TCO'99*

1	EN55013
2	EN55020 / EN55022 / EN55024
3	EN61000-3-2 / EN61000-3-3

5 Noise Emissions

5.1 declared sound power and sound pressure levels

Sound power levels L_{WAd}

Sound pressure levels L_{pAm}

Location

Position of the unit

Distance [m]

	<operational mode> *e.g. HDD access*	<description>	<level>	L_{WAd}	<level>	L_{pAm}
1	n.a.	n.a.	n.a.	[bel]	n.a.	[dB(A)]
2				[bel]		[dB(A)]
3				[bel]		[dB(A)]
4				[bel]		[dB(A)]
5				[bel]		[dB(A)]
6				[bel]		[dB(A)]

6 Chemical Emissions

6.1 The following chemical emissions have been measured according to ECMA-328:

	<operational mode> e.g. printing	**Chemical emission rates** (VOC and ozone) <emissions rate> VOC		ozone		**Dust emission rates** dust	
1	n.a.	n.a.	[micro-gr./hr]	n.a.	[micro-gr./hr]	n.a.	[micro-gr./hr]
2			[micro-gr./hr]		[micro-gr./hr]		[micro-gr./hr]
3			[micro-gr./hr]		[micro-gr./hr]		[micro-gr./hr]

7 Hazardous Substances and Preparations

The product does not contain:

		not con-tain	con-tain	under survey	n.a.
7.1<a>	Substances and preparations covered by **general limitation**				
	asbestos;	☑	☐	☐	
	azo Colorants;	☑	☐	☐	
	mercury and mercury compounds;	☑	☐	☐	
	CFCs, HCFCs;	☑	☐	☐	
	PCBs, PCTs and PCN.	☑	☐	☐	
7.2<b>	Substances and preparations covered by limitations in **plastic mechanical parts and housings**				
	cadmium and cadmium compounds;	☑	☐	☐	☐
	short chain cholroparaffins;	☑	☐	☐	☐
	lead or lead compounds;	☑	☐	☐	☐
	PBB, PBDE.	☑	☐	☐	☐
7.3<c>	Substances and preparations covered by limitations in **paints, coatings or colouring agents**				
	cadmium and cadmium compounds;	☑	☐	☐	☐
	TBT and TBTO;	☑	☐	☐	☐
	hexavalent chromium compound;	☑	☐	☐	☐
	lead or lead compounds;	☑	☐	☐	☐

NOTE Substances and preparations covered by limitations in batteries and packaging are defined in clauses 5.8 and 5.9.

8 Batteries

The product { ☑ contains/ ☐ does not contain} batteries.

8.5 The product or accessory contains the following batteries:

	<battery or accumulator> e.g. Main / Back-up battery	<type> e.g. Li-ion / NiCd	<num.>	<total weight>		<size> <h>	cm x	<w>	cm x	<d>	cm
1	Remote control battery	Carbon Zinc	2	36,00	[g]	5,1	x	1,5	x	1,5	
2					[g]		x		x		

9 Product Packaging

9.1 The following packaging is used:

	<packaging> e.g. Main carton / remote control bag	<type> e.g. carton / PS	<num.>	<total weight>	
1	Main box	Carton	1	1450,0	[g]
2	Protection tape (of front cabinet)	PE	4	11,5	[g]
3	LCD foam	PE	1	60,0	[g]
4	Top & Bottom pads	EPS	4	411,0	[g]
5	Accessories bag (R/C, AC cord, Batteries, Etc.)	H-LDPE	4	10,0	[g]
6	Owner's Manual bag	H-LDPE	2	14,0	[g]
7	Main box tape	PP	2	11,0	[g]
8	Stand box	EPS	1	236,0	[g]
9	Stand box cover	carton	1	186,0	[g]
10	Stand foam	PE	2	15,0	[g]
11	Stand box tape	PP	4	0,4	[g]
12	Stand screws bag	H-LDPE	1	1,0	[g]
13					[g]

		Requirement met Yes	No	n.a.
9.5	The packaging materials are marked according to a standard. Name of Standard *e.g. ISO 11469:2000*	☑	☐	☐
9.6	Specific packaging take back programme and recycling services are available. <describe> Green Dot	☑	☐	☐

10 Documentation Materials

10.1 Paper

		Requirement met Yes	No	n.a.
10.1.1	The documentation is made under use of recycled paper.	☐	☑	☐
10.1.2	The recycled content: is		% to	%
10.1.3	The paper is bleached by the following method;	Chlorine is not used		

10.2 Other Media

10.2.1	The media type is: *e.g. magnetic tapes, CDs, DVDs*	n.a.
10.2.2	The disposal method is: *e.g. system name or description*	

11 Product End of Life

11.1 Product Take Back Information

		Requirement met Yes	No	n.a.
	Regarding take-back systems for products and consumables,			
11.1.2	Customers are advised			
	to contact their supplier representatives for additional information;	☐	☐	☑
	to check the products manual;	☑	☐	☐
	to visit the following web page			
	URL ; www.sharp-eu.com			
	other: to contact with local authorities or recycling service company			

11.2 Disassembly

11.2.1	The following design features have been included in the product to enable easy disassembly, separation and / or recycling.			
	Disassembly down to the module level is possible using only commonly available tools;	☑	☐	☐
	Reduction of the number of steps necessary for disassembly;	☑	☐	☐
	Reduction of number of tools necessary for disassembly;	☑	☐	☐
	Reduction of variety and number of connections;	☑	☐	☐
	Marking of mechanical plastic parts according to **ISO11469:2000** as applicable.	☑	☐	☐

12 Additional Information Source

12.1 Further information sources are:

e.g. Manufacturer's URL, representative name and telephone number etc., except for sources indicated in 1st. page.

1
2
3